WHAT IS CLAIMED IS:

1. An image processing device comprising:

an SIMD (Single Instruction stream Multiple Data stream)

5 calculating means for performing operations, such as motion compensation, motion prediction, DCT (Discrete Cosine Transform) processing, IDCT (Inverse Discrete Cosine Transform) processing, quantization, and reverse quantization by means of a pipeline operation unit that can be program
10 controlled by an outside unit;

a VLC (Variable Length Code) processing means for performing variable-length encoding processing and variable-length decoding processing according to a given encoding method;

an external data interface means for performing a data transfer between the image processing device and an outside unit;

an instruction memory for holding an instruction to be processed; and

a processor means for decoding the instruction held by said instruction memory, and for performing a programmed control operation on said SIMD calculating means, said VLC processing means, and said external data interface means.

- 2. The image processing device according to Claim 1, wherein said instruction memory is a RAM (Random Access Memory).
 - 3. The image processing device according to Claim 1, wherein said instruction memory is a ROM (Read Only Memory).